

Tracking #: 1005945
Profile #: 236152
Date Recd: 2/7/11 9:01:52 AM
Generator: PRAXAIR, INC.
Desc: CARBON WITH CHROME

Appendix I
Physical Description Worksheet

Receiver # _____
Received Date _____

DR #	SIZE/TYPE	O/P	WEIGHT	COLOR/DESCRIPTION	% FULL	% SOLID	% LIQUID
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

TECHNICIAN SIGNATURE _____ DATE _____

LOCATION _____ NET WEIGHT _____

TWI LABORATORY ANALYSIS REPORT

Tracking #: 1005945
 Profile #: 236152
 Date Recd: 2/7/11 9:01:52 AM
 Generator: PRAXAIR, INC.
 Desc: CARBON WITH CHROME

PROCESS CODE BSH/OST PROFILE # 236152
☐ PCB ANALYSIS REQUIRED
☐ LAB: RUN METALS AS SPECIFIED BELOW
☐ DIOXIN PRECURSOR ANALYSIS REQUIRED
☐ VISUAL INSPECTION ONLY 5% 100%
☐ VISUAL INSPECTION: GLOVE BOX/HOODED FEEDER
☐ INSPECT OUTER DRUM ONLY - DO NOT OPEN - CMTS BELOW
☐ RECEIVING: VERIFY ORIGINAL CONSUMER LABEL AND WRITE LABEL INFO ON PDW
☒ DECANT SAMPLE REQUIRED
☒ SAMPLE REQUIRED

RECEIVER #: _____

MANIFEST#: _____

No. DRUMS: _____

DATE: _____

SAMPLER SIGN: _____

As 0Be 0Cd 17.52Cr 228Hg 0Pb 0Ash 36.68

DRUM STORAGE COMPATABILITY

Profiled DOT Hazard Class 9

P=PASS F=FAIL

8A _____ 8B _____ 4/5 _____

SAMPLE NUMBER	
Drum No.	
Free Liquid (%)	
Pumpable	YES NO
Layers/Phases -% Ea.	1 _____ % 2 _____ % 3 _____ %
Color	
Turbidity	N/A TnsP TnsL Opq N/A TP TL O N/A TP TL O
Viscosity	N/A L M H N/A L M H N/A L M H
Physical State	Liq Solid Sludge Semi-sld Liq Sol Slg Ss Liq Sol Slg Ss
Water Miscibility	Misc Part Floats Sinks Emuls M F S E M F S E

Add. Description:

Water Reactivity	() NO RXN () RXN:			
Radiation Screen	() =BKG () >BKG:	=BKG		
Flam. Pot. Screen	() Neg () Pos () BOC	See Flashpoint		
pH Screen	() 100% () 10%	<2 6-12.5 >12.5		
Oxidizer Screen	() Neg () Pos			
Paint Filter Test	() Pass () Fail () V-Fail () N/A			
Cyanide Screen	() Neg () Pos () N/A			
Sulfide Screen	() Neg () Pos () N/A			
Incidental odor	() No () Yes:			
Specific Gravity				
BTU/LB		~12000		
% Chloride		4		
Flash Point deg. F		<73 <140 >140 N/A		
PCBs By GC mg/kg		<50ppm		
PCBs-Screen ppm		<50ppm		
2,4,5-T/Silvex ppm				
PCP Screen ppm	() KIT () GC			
pH by Meter	() 100% () 10%			

() PCB waived. Does not meet PCB suspect criteria.

ACCEPT / REJECT:

Analytical Comments: () Reference Tracking# / Sample# 30-9673 for analysis.

() Dioxin Precursor analysis results below site action levels () No additional analysis required () Run on each load

() Analysis supplied by generator - See Tech. Manager File. () PCB analysis to be determined upon visual inspection of waste

Add. Comments:

PROFILE REVIEW FOR APPENDIX WAP-C CONSTITUENTS BY: CAKDATE: 2-7-11

PROFILE & HANDLING COMMENTS:

() Water Reactive - avoid contact with moisture

() Contains Cyanides - DO NOT mix with pH <6 () Benzene NESHAP controls required: () Cert. () No Cert.

() Poison Inhalation Hazard () Reactive Category: A B C D E Add. Comments:

This report has been prepared for the exclusive use and benefit of Waste Mgmt. No representation concerning sample validity or analytical accuracy or completeness is hereby made to any other person receiving this report. This sample was collected according to applicable SW-846 procedures.

Veolia ES Technical Solutions, L.L.C

APPROVAL SUMMARY - TWI236152

PAGE 3 - 2/07/11

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

NAME (PRINT OR TYPE)_____
PHONE_____
DATE_____
SIGNATURE_____
TITLE**FACILITY NOTIFICATION**

If approved for Management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

Date: 02/07/2011
TIME: 09.21.50

** Not Found **

PAGE...: 1

DECISION

I. GENERATOR AND FACILITY INFORMATION

VEOLIA ES TECHNICAL SOLUTIONS
SAUGET, IL

*** This Decision is Approved

TRACKING #: 001 APPROVAL CODE: TWI236152
DATE RECEIVED: 02/01/2011
APPROVAL DATE: 02/01/2011
GENERATOR: PRAXAIR, INC.
DESCRIPTION: CARBON WITH CHROME

II. DECISION TO DENY APPROVAL FOR MANAGEMENT OF WASTE

REASON FOR DENYING APPROVAL

III. DECISION TO APPROVE

A) APPROVED MANAGEMENT METHODS

- INCINERATION

B) SITE AND CONTRACTING CONDITIONS

- BULK SOLIDS: MATERIAL MUST PASS PAINT FILTER TEST AND
- NOT BE TACKY.
- A SIGNED AND COMPLETED LAND DISPOSAL NOTIFICATION
- AND CERTIFICATION FORM MUST ACCOMPANY EACH SHIPMENT.
- RQ'S AND WASTE PROFILE NUMBERS MUST APPEAR ON THE
- MANIFEST.
- DOT APPROVED CONTAINERS
- ALL SHIPMENTS MUST BE MADE USING A MANIFEST.

C) ANALYTICAL REQUIREMENTS FOR EACH LOAD

- MANDATORY ANALYSIS PER WAP

D) DECISION EXPIRATION DATE

- 02/01/2013

IV. FINAL DECISION

FINAL APPROVAL _____

Name: CAROLYN KUCHARSKI

Date: 02/07/2011

APPROVALS REQUEST FORMCIRCLE ONE: AMENDMENT RECERT RUSHREQUESTED BY: Shawn BadenDATE: 2/1/11*Access
Approved*

GENERATOR INFORMATION:

GENERATOR: PRAXAIR 532911

GENERATOR CONTACT NAME: _____

GENERATOR PHONE & FAX: _____

WIP# _____ WAS WIP AMENDED? YES/NO _____

APPROVAL # 236152EXPIRATION DATE 4/18/08DATE REQUIRED: DWEREQUEST: _____

_____ADDITIONAL INFORMATION: _____

ROUTE BACK TO REQUESTER: YES _____ NO _____

REQUEST APPROVED: YES CAK NO _____REASON NOT APPROVED: _____

CNAREZ/Forms/Approvals Request Form 6-10

CSR/Forms/Approvals Request Form 6-10

Technical/Forms/Approvals Request Form 6-10

Rev. 06/10

Appendix I

Veolia ES Technical Solutions
Waste Profile Summary

TWI-236152

MRL

Business : PRAXAIR INC
 Dept :
 Address 1: POINT LICK DRIVE OFF CAMPELLS
 Address 2:
 City/St : TAD WV 25201
 Contact : JOHN E

Number : 1435934
 Phone : 0000000000
 Expires : 4/18/2008
 Federal EPA ID: EXEMPT
 State EPA ID : 9540019999
 Sales Office : NJO

Waste Name: CARBON WITH CHROME
 Process Generating Waste: DISCARD OF USED CARBON FILTER MEDIA
 Ship. Name: HAZARDOUS WASTE, SOLID, N.O.S
 Addl. Desc: (CHROMIUM)

Min	Max	UOM	Chemical Composition
Metals Total			Physical Characteristics
ARSENIC-PPM	:0		Physical State : Solid
BERYLLIUM-PPM	:0		Flash Point : N/A Degrees F
CADMIUM-PPM	:17.52		pH : 5.0 - 9.0
CHROMIUM-PPM	:228		Color : BLACK
LEAD-PPM	:0		Odor : None
MERCURY-PPM	:0		Layers : SINGLE LAYER
POTASSIUM-PPM	:0		Specific Gravity : 0.000
			Free Liquids : 0
			CRQ RPT QTY : 0
			Hazard Class : 9
			Benzene : NESHAP:
			Packing Group : III
			Process Codes : BSH DST

APPROVED FEDERAL CODES

HANDLING and PPE

NEO. GREY GLOVES
 N-DEX INNER GLOVE
 SARANEX
 Contains Cadmium
 TYPE C RESPIR CONST FLOW
 INDEX/BLUE NITRILE (INNER GLOVE) +

Dot Properties

Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 0 Health: 0

Summary

Form Code : 1
 Waste Type : B310

Profile Handling and Other Comments

CHARGE CODE: PSCO
 REVIEWED FOR MACT METALS

PRAXAIR
532911

30-9573
6/19/07

**HANDLING and PPE
Not Included on Waste Profile Summary Report
CANCER SUSPECT AGENT: CADMIUM**

Veolia ES Technical Solutions, L.L.C

APPROVAL SUMMARY - TWI236152

PAGE 1 - 2/07/11

TWI		VEOLIA ES TECHNICAL SOLUTIONS		H040				
				Incineration-thermal destruct.				
552/578 - POCA, WV 10-DAY		L.L.C., POCA, 402 JACOBSON DRIVE, WV 25159						
Original WIP 236152		Generator No. 532911		Generator EPA ID No. WVD988716050				
Generator Name PRAXAIR, INC.				Generator State No. 9540019999				
Address POINT LICK DRIVE OFF CAMBELLS				State Wastestream No.				
CREEK ROAD								
City TAD	State WV	Country US	Zip 25201 -	Form Code W409				
Signature on File? N								
Approval Date: 04/21/2006		Expiration Date: 06/19/2013		Next Sample Date:				
Recert WIP No:		Recert Generator No.		Recert Sent date:				
State Approval Code:		State Exp:		State Lim Qty: UOM:				
Temporary Hold: No		Restrictions: No		One Time Only: No				
Waste Name: CARBON WITH CHROME								
Process Generating Waste: discard of used carbon filter media								
DOT Shipping Names(s):								
NA3077, HAZARDOUS WASTE, SOLID, n.o.s.					9			
Waste Codes:								
RCRA: D007								
DOT Properties:								
Inhalation: -		Dermal: -		Oral: -				
Flammable: -		Health: -						
Physical and chemical properties								
	Range	From	-	To	Range	From	-	To
pH		5.0	-	9.0	Specific Gravity	.0	-	.0
VOC		0	-	0 %	Flash Point	0	-	0 F
Suspended Solids		0	-	0 %	Settleable Solid	100	-	100 %
Dissolved Solids		0	-	0 %	Ash	0	-	0 %
Water Solubility		0	-	0 %	BTU s / Lb	7000	-	12000
Free Liquid		0	-	0 %				
Physical State:		Solid						
Hazard Characteristics:								
Used Oil: No					HOC ppm:			
Color: Black					Intensity:			
Odor: None					Description:			
Layers: Single Phase					Cyanide: Sulfide:			
Viscosity:					Benzene Concentration:			
Top Layer Solid					Benzene NESHAP Controls Required?			
Second Layer					Add Benzene to Tab?			
Bottom Layer					Benzene NESHAP Cert Req Per Load?			
HALOGENS		FROM	TO	FROM		TO	UOM	
Br BROMINE			Max 0%	Beryllium				
Cl CHLORINE				Sodium				

Veolia ES Technical Solutions, L.L.C

APPROVAL SUMMARY - TWI236152

PAGE 2 - 2/07/11

F FLUORINE
I IODINEPotassium
Sulfur**WASTE COMPONENT CHEMICALS:**

CARBON W/CHROME

LOW

100.00

HIGH

100.00

UOM

%

PROCESS CODES:

BSH, DST

PPE REQUIREMENTS:**APPROVAL COMMENTS**

Amendment

PCBs Regulated by 40CFR

CSR Comments

DOT Properties

PPE Requirements

General Comment

Hold Related info

Compatibility Group

PSC Comments (2)

L CHARGE CODE: PSCO

L REVIEWED FOR MACT METALS

Decision Comment (1)

M RECERTED 2/1/11 CAK

Approved Containers

Other Information (1)

O REF RCVR# 30-9673 FOR RECERT ANALYSIS, 6/19/07

Process Codes

Restricts/Limits/Precaut

Special Handling (1)

S CANCER SUSPECT AGENT: CADMIUM

Sampling Waived

Appendix I

Veolia ES Technical Solutions, L.L.C

APPROVAL SUMMARY - TWI236152

PAGE 1 - 3/01/11

TWI		VEOLIA ES TECHNICAL SOLUTIONS		H040	
				Incineration-thermal destruct.	
552/578 - POCA, WV 10-DAY		L.L.C., POCA, 402 JACOBSON DRIVE, WV 25159			
Original WIP 236152		Generator No. 532911		Generator EPA ID No. WVD988716050	
Generator Name PRAXAIR, INC.				Generator State No. 9540019999	
Address POINT LICK DRIVE OFF CAMBELLS				State Wastestream No.	
CREEK ROAD					
City TAD	State WV	Country US	Zip 25201 -	Form Code W409	
Signature on File? Yes					
Approval Date: 04/21/2006		Expiration Date: 06/19/2013		Next Sample Date:	
Recert WIP No:		Recert Generator No.		Recert Sent date:	
State Approval Code:		State Exp:		State Lim Qty: UOM:	
Temporary Hold: No		Restrictions: No		One Time Only: No	

Waste Name: CARBON WITH CHROME
 Process Generating Waste: discard of used carbon filter media

DOT Shipping Names(s):

NA3077, HAZARDOUS WASTE, SOLID, n.o.s.

9

Waste Codes:

RCRA: D007

DOT Properties:

Inhalation: 2 - Moderate
 Flammable: -

Dermal: 2 - Moderate
 Health: -

Oral: 2 - Moderate

Physical and chemical properties

	Range	From	-	To		Range	From	-	To
pH		5.0	-	9.0	Specific Gravity		.0	-	.0
VOC		0	-	0 %	Flash Point		0	-	0 F
Suspended Solids		0	-	0 %	Settleable Solid		100	-	100 %
Dissolved Solids		0	-	0 %	Ash		0	-	0 %
Water Solubility		0	-	0 %	BTU s / Lb		7000	-	12000
Free Liquid		0	-	0 %					

Physical State: Solid
 Hazard Characteristics:

Used Oil: No	HOC ppm:
Color: Black	Intensity:
Odor: None	Description:
Layers: Single Phase	Cyanide: Sulfide:
Viscosity:	Benzene Concentration:
Top Layer Solid	Benzene NRSHP Controls Required?
Second Layer	Add Benzene to Tab?
Bottom Layer	Benzene NRSHP Cert Req Per Load?

HALOGENS	FROM	TO		FROM	TO	UOM
Br BROMINE		Max 0%	Beryllium			
Cl CHLORINE			Sodium			

Veolia ES Technical Solutions, L.L.C

APPROVAL SUMMARY - TWI236152

PAGE 2 - 3/01/11

F FLUORINE
I IODINEPotassium
Sulfur

WASTE COMPONENT CHEMICALS:

CARBON W/CHROME

LOW

100.00

HIGH

100.00

UOM

%

PROCESS CODES:

BSH, DST

PPE REQUIREMENTS:

R	CRESP	SUPPLIED AIR (TYPE "C" RESPIRATOR, CONSTANT FLOW)
B	CTAPE	KAPPLERS CHEM-TAPE 2 (REPLACES DUCT TAPE FOR SOME APPLIC.)
H	NEOPR	NEOPRENE GLOVES
H	NITRL	N-DEX, BLUE NITRILE
B	SARAN	SARANEX, WHITE (TYVEK WITH SARANEX COATING)

APPROVAL COMMENTS

Amendment

PCBs Regulated by 40CFR

CSR Comments (1)

C SIGNED WIP AT POCA

DOT Properties

PPE Requirements

General Comment

Hold Related info

Compatibility Group

PSC Comments (4)

L CHARGE CODE: PSCO
 L REVIEWED FOR MACT METALS
 L k/poca dst/bsh 6/19/13 afs/twi
 L WEIGH DRUMS INDIVIDUALLY

Decision Comment (1)

M RECERTED 2/1/11 CAK

Approved Containers

Other Information (1)

O REF RCVR# 30-9673 FOR RECERT ANALYSIS, 6/19/07

Process Codes

Restricts/Limits/Precaut

Appendix I

Veolia ES Technical Solutions, L.L.C

APPROVAL SUMMARY - TWI236152

PAGE 3 - 3/01/11

Special Handling (1)

S CANCER SUSPECT AGENT: CADMIUM

Sampling Waived

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

NAME (PRINT OR TYPE)

PHONE

DATE

SIGNATURE

TITLE

FACILITY NOTIFICATION

If approved for Management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

PPE CODES FOR PREPARATION SHEET AND PROCESS PLAN GLOVES

- ☐ 61 or 75 PVC, BLACK Gloves
☐ 62 or 76 NITRILE, GREEN, MAPA AR-18 Pioneer
☐ 63 or 77 NEOPRENE, Gloves
☐ 78 PVA, ORANGE, ANSELL EDMONT 15-554
☐ 79 BUTYL RUBBER, BLACK, NORTH B-174, BEST 878
☒ 80 N-DEX, BLUE, NITRILE
☐ 81 4H, SILVER COLOR
☐ 82 VITON, BLACK
☐ 83 NITTY GRITTY, BEST 67NFW-1020
☐ OPEN
 G13-G19
 G-20

FREE FORM

*Return to
Kathy
need file
across street*

CHEMICAL PROTECTIVE CLOTHING

- ☐ 64 or 86 SARANEX, WHITE, (tyvek with saranex coating)
☐ OPEN
☐ 85 TYVEK, WHITE,
☐ OPEN
☐ 88 CPF3, HOODED, TAN
☐ 89 CPF4, HOODED, DARK GREEN
☐ 90 NOMEX COVERALLS
 KAPLER CHEM TAPE 2 PSC Comments

S10-S19
S20

FREE FORM

RESPIRATORY PROTECTION

- ☐ OC DUST- MIST CARTRIDGE, HEPA
☐ OB ORGANIC/ACID GAS CARTRIDGE
☐ 67 PESTICIDE DUST CARTRIDGE
☐ 70 AMMONIA CARTRIDGE
☐ 71 or 95 FULL FACE RESPIRATOR
☐ OD SUPPLIED AIR, TYPE C RESPIRATOR, CONSTANT FLOW
 R7-R19
 R20

FREE FORM

BOOTS

- ☐ OF PVC YELLOW BOOT COVERS (Lightweight)
☐ OG RUBBER, YELLOW, OVERBOOT HEAVY
☐ OH PVC, OVER-THE-SOCK BOOT, BLACK
 B4-B19
 B20

FREE FORM

___ INHALATION

___ DERMAL

___ INGESTION

LIST OTHER
PPE

COMMENTS:

RETURN FILE TO: _____ MAINTENANCE _____ CONFIRMATION _____ MAS
 (REVISED 11 June 11, 2002)

3-6-08

Appendix
PPE CODES FOR PREPARATION SHEET
AND PROCESS PLAN
GLOVES

- ☐ 61 or 75 PVC, BLACK Gloves
☐ 62 or 76 NITRILE, GREEN, MAPA AR-18 Pioneer
☒ 63 or 77 NEOPRENE, Gloves
☐ 78 PVA, ORANGE, ANSELL EDMONT 15-554
☐ 79 BUTYL RUBBER, BLACK, NORTH B-174, BEST 878
☒ 80 N-DEX, BLUE, NITRILE
☐ 81 4H, SILVER COLOR
☐ 82 VITON, BLACK
☐ 83 NITTY GRITTY, BEST 67NFW-1020
☐ OPEN
G13-G19
G-20

FREE FORM

CHEMICAL PROTECTIVE CLOTHING

- ☒ 64 or 86 SARANEX, WHITE, (tyvek with saranex coating)
☐ OPEN
☐ 85 TYVEK, WHITE,
☐ OPEN
☐ 88 CPF3, HOODED, TAN
☐ 89 CPF4, HOODED, DARK GREEN
☒ 90 NOMEX COVERALLS
☒ KAPPLER CHEM TAPE 2 PSC Comments

S10-S19

S20

FREE FORM

RESPIRATORY PROTECTION

- ☐ OC DUST- MIST CARTRIDGE, HEPA
☐ OB ORGANIC/ACID GAS CARTRIDGE
☐ 67 PESTICIDE DUST CARTRIDGE
☐ 70 AMMONIA CARTRIDGE
☐ 71 or 95 FULL FACE RESPIRATOR
☒ OD SUPPLIED AIR, TYPE C RESPIRATOR, CONSTANT FLOW

R7-R19

R20

FREE FORM

BOOTS

- ☐ OF PVC YELLOW BOOT COVERS (Lightweight)
☐ OG RUBBER, YELLOW, OVERBOOT HEAVY
☐ OH PVC, OVER-THE -SOCK BOOT, BLACK
B4-B19

B20

FREE FORM

2 INHALATION

2 DERMAL

2 INGESTION

LIST OTHER
PPE

COMMENTS:

RETURN FILE TO:

(REVISED 11-June-11; 2002)

JB MAINTENANCE

CONFIRMATION

MAS

3-6-08

NEIC VP0987E01

SAFETY & PPE PREPARATION SHEET

PPE AS400 HANDLING CODES

GLOVES

- | | |
|--|--|
| <input type="checkbox"/> 60 GLOVES | <input type="checkbox"/> 79 BUTYL RUBBER GLOVE |
| <input type="checkbox"/> 61 or 75 PVC GLOVE | <input checked="" type="checkbox"/> 80 N-DEX INNER GLOVE |
| <input type="checkbox"/> 62 or 76 NITRILE (NBR) GLOVE | <input type="checkbox"/> 81 4H INNER GLOVE |
| <input checked="" type="checkbox"/> 63 or 77 NEOPRENE GLOVE | <input type="checkbox"/> 82 VITON GLOVE |
| <input type="checkbox"/> 78 PVA GLOVE | <input type="checkbox"/> 83 NITTY GRITTY GLOVE |
| <input type="checkbox"/> PSC COMMENT - KAPPLER's CHEM-TAPE 2 | |

PERSONAL PROTECTIVE EQUIPMENT

- | | |
|---|------------------------------------|
| <input type="checkbox"/> 84 PPE | <input type="checkbox"/> 90 NOMEX |
| <input type="checkbox"/> 85 TYVEK PROSHIELD I, II | <input type="checkbox"/> 91 (OPEN) |
| <input type="checkbox"/> 64 or 86 SARANEX | <input type="checkbox"/> 92 (OPEN) |
| <input type="checkbox"/> 88 CPF 3 | <input type="checkbox"/> 93 (OPEN) |
| <input type="checkbox"/> 89 CPF 4 | |

Lush!

RESPIRATORY PROTECTION

- | | |
|--|---|
| <input type="checkbox"/> 94 RESPIRATORY PROTECTION | <input type="checkbox"/> 97 COMBINATION ORG/ACID GAS |
| <input type="checkbox"/> 67 PESTICIDE CARTRIDGE | <input type="checkbox"/> 0A ACID CARTRIDGE |
| <input type="checkbox"/> 70 AMMONIA GAS CARTRIDGE | <input type="checkbox"/> 0B ORGANIC CARTRIDGE |
| <input type="checkbox"/> 71 or 95 FULL-FACE RESPIRATOR | <input type="checkbox"/> 0C DUST CARTRIDGE |
| <input type="checkbox"/> 96 HEPA CARTRIDGE | <input checked="" type="checkbox"/> 0D TYPE C RESPIR. CONSTANT FLOW |

BOOTS

- | | |
|--|--|
| <input type="checkbox"/> 0E BOOTS | <input type="checkbox"/> 0G YELLOW RUBBER OVERBOOT |
| <input type="checkbox"/> 0F PVC YELLOW OVER BOOT COVER | <input type="checkbox"/> 0H BLACK OVER THE SOCK BOOT |

☒ INHALATION☒ DERMAL☒ INGESTION

LIST OTHER PPE: _____

COMMENTS: _____

RETURN FILE TO: CW Maintenance: _____ Confirmation: _____ MAS: _____

(Revised 4/25/00)

TWI LABORATORY ANALYSIS REPORT

TRACKING #: 00000000000000000000
 SAMPLE #: 00000000000000000000
 GENERATOR: TRACER INC
 WASTE CATEGORY CODE:
 SECURITY: GROUND WITH WASTE

PROCESS CODE BSH PROFILE # 236152

- () PCB ANALYSIS REQUIRED
 () LAB: RUN METALS AS SPECIFIED BELOW
 () DIOXIN PRECURSOR ANALYSIS REQUIRED
 () VISUAL INSPECTION ONLY 5% 100%
 () VISUAL INSPECTION: GLOVE BOX/HOODED FEEDER
 () INSPECT OUTER DRUM ONLY - DO NOT OPEN - CMTS BELOW
 () RECEIVING: VERIFY ORIGINAL CONSUMER LABEL AND
 WRITE LABEL INFO ON PDW
 () DECANT SAMPLE REQUIRED
☒ SAMPLE REQUIRED

RECEIVER #: _____

MANIFEST #: _____

No. DRUMS: _____

DATE: _____

SAMPLER SIGN: _____

SAMPLE NUMBER	
Drum No.	
Free Liquid (%)	
Pumpable	YES NO
Layers/Phases -% Ea.	1 _____ % 2 _____ % 3 _____ %
Color	
Turbidity	N/A TnsP TnsL Opq N/A TP TL O N/A TP TL O
Viscosity	N/A L M H N/A L M H N/A L M H
Physical State	Liq Solid Sludge Semi-sld Liq Sol Slg Ss Liq Sol Slg Ss
Water Miscibility	Misc Part Floats Sinks Emls M P F S E M P F S E

Add. Description:

Water Reactivity	() NO RXN () RXN:	
Radiation Screen	() =BKG () >BKG:	=BKG
Flam. Pot. Screen	() Neg () Pos () BOC	See Flashpoint
pH Screen	() 100% () 10%	<2 <u>2.425</u> >12.5
Oxidizer Screen	() Neg () Pos	
Paint Filter Test	() Pass () Fail () V-Fail () N/A	
Cyanide Screen	() Neg () Pos () N/A	
Sulfide Screen	() Neg () Pos () N/A	
Incidental odor	() No () Yes:	
Specific Gravity		
BTU/LB		~12000
% Chloride		<1
Flash Point deg. F		<73 <140 >140 <u>N/A</u>
PCBs By GC mg/kg		<50ppm
PCBs-Screen ppm		<50ppm
2,4,5-T/Silvex ppm		
PCP Screen ppm	() KIT () GC	
pH by Meter	() 100% () 10%	

() PCB waived. Does not meet PCB suspect criteria.

ACCEPT / REJECT: _____

() NEW PROFILE# _____

Analytical Comments: () Reference Tracking# / Sample# _____ for analysis.

- () Dioxin Precursor analysis results below site action levels () No additional analysis required () Run on each load
 () Analysis supplied by generator - See Tech. Manager File. () PCB analysis to be determined upon visual inspection of waste

Add. Comments _____

PROFILE REVIEW FOR APPENDIX WAP-C CONSTITUENTS BY: KM Muehler DATE: 4-18-06

PROFILE & HANDLING COMMENTS: () Water Reactive - avoid contact with moisture

- () Contains Cyanides - DO NOT mix with pH <6 () Benzene NESHAP controls required: () Cert. () No Cert.
 () Poison Inhalation Hazard () Reactive Category: A B C D E Add. Comments: _____

Cancer Suspect Agent: Cadmium

This report has been prepared for the exclusive use and benefit of Waste Mgmt. No representation concerning sample validity or analytical accuracy or completeness is hereby made to any other person receiving this report. This sample was collected according to applicable SW-846 procedures.

FFFM998.XLS KS

PHYSICAL DESCRIPTION WORKSHEET

PROFILE #:

INSTRUMENT #: 1001400 PRIORITY: 57

RECEIVER #:

GENERATOR:

PROFILE #: 1001400 DATE RECV: 4/10/98

RECEIVED DATE:

DESCRIPTION:

GENERATOR: FANUK 100

WHITE CARBON 1000

DESCRIPTION: GREEN WITH CHROME

PROCESS CODE:

DR #	SIZE/TYPE	O/P	WEIGHT	COLOR/DESCRIPTION	% FULL	% SOLID	% LIQUID
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

TECHNICIAN SIGNATURE:

LOCATION:

COMMENTS:

Date 4/18/06
Time 16:21:42

WASTE MANAGEMENT DECISION
Appendix I

Page . . . : 1

Location of Original MIDWEST REGIONAL LAB

I. Generator and Facility Information

Decision Site TRADE WASTE INCINERATI
Proposed Management Facility TRADE WASTE INCINERATI

Tracking #: 5622406 Priority : 97
Profile # : 236152 Date Received: 04/18/06
Effective Date: 04/18/06
Generator : PRAXAIR INC
Waste Category Code:
Description : CARBON WITH CHROME

*** This Decision is APPROVED

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Incineration

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions

(3) Site and Contracting Conditions

- Bulk solids: Material must pass paint filter test and not be tacky.
- Bulk solids: Maximum particle size not to exceed 4" in diameter.
- Bulk solids: Must not contain debris. - A signed and completed Land Disposal
- Notification & Certification form must accompany each shipment. (copy enclosed)
- RQ'S and waste profile numbers must appear on the manifest and drums.
- DOT approved containers. - All shipments must be made using an Illinois
- manifest.

c) Analytical Requirements for Each Load
MANDATORY ANALYSIS PER WAP

d) Decision Expiration Date 04/18/08

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) KELLY MEREDITH Date 04/18/06

Date Printed 04/18/06

Onyx Environmental Services, LLC
Appendix I
GENERATOR'S WASTE PROFILE SHEET

Profile #
TWI 236152

() Check here if this is a Recertification LOCATION OF ORIGINAL MIDWEST REGIONAL LAB

GENERAL INFORMATION

1. Generator Name: PRAXAIR INC Generator USEPA ID: EXEMPT
2. Generator Address: POINT LICK DRIVE OFF CAMPBELLS Billing Address: ONYX ENVIRONMENTAL SVCS LLC
() Same 12480B DEBARTOLO DR
TAD WV 25201
3. Technical Contact/Phone: JOHN E NORTH JACKSON OH 44451-9693
4. Alternate Contact/Phone: Billing Contact/Phone:

PROPERTIES AND COMPOSITION

5. Process Generating Waste: DISCARD OF USED CARBON FILTER MEDIA
6. Waste Name: CARBON WITH CHROME
7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No ()
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D007
State Waste Codes: 090001
8. Physical State @ 70F: A. Solid(X) Liquid() Both() Gas() B. Single Layer (X) Multilayer () C. Free liq. range 0 to 0%
9A. pH: Range 5.0 to 9.0 or Not applicable () B. Strong Odor ():describe
10. Liquid Flash Point: < 73F () 73-99F () 100-139F () 140-199F () >= 200F () N.A. (X) Closed Cup (X) Open Cup ()
11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis
Constituents Range Unit Description
CARBON 100 to 100 %
CHROMIUM 228 to 228 PPM
CADMIUM 17.52 to 17.52 PPM
COMMENTS to
METALS LISTED ARE TOTALS CONVERTED FROM TCLP SUPPLIED BY CUSTOMER to See attach2
to See attach2
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%): 100.000000
12. OTHER: PCBs if yes, concentration _____ ppm, PCBs regulated by 40 CFR 761 (). Pyrophoric () Explosive ()
Radioactive () Benzene if yes, concentration _____ ppm. NESHAP () Shock Sensitive () Oxidizer ()
Carcinogen (X) Infectious () Other _____
13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid () Drum () Type/Size: ROLLOFF Other _____
15. ANTICIPATED ANNUAL VOLUME: 10 Units: ROLLOFF Shipping Frequency: YEAR

SAMPLING INFORMATION

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): _____ Sample Tracking Number: 5622406
Date Sampled: _____ Sampler's Name/Company: _____
16b. Generator's Agent Supervising Sampling: _____ 17. () No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize Onyx Environmental to obtain a sample from any waste shipment for purposes of recertification.

Signature NEIC VP0987E01 profile 236152
Signature

Page 37 of 80

Veolia ES Technical Services
Name and Title Sauget, Illinois Date 4/10/06

18. This is a Nonwastewater.
19. If this waste is subject to any California list restrictions enter the letter from below (either A or B.1) next to each restriction that is applicable:
 ___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable	SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)		
					268.41(a)	268.43(a)	
		DESCRIPTION	NONE				
1	D007		X				A
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:
 A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO 268.40 STANDARDS

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

B.5 RESTRICTED WASTES TREATED TO ALTERNATE DEBRIS STANDARD

B.6 RESTRICTED WASTES TREATED TO ALTERNATE SOIL STANDARD

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil or debris? No: X Yes, Soil: ___ Yes, Debris: ___

22. Specific Gravity Range: ___ to ___

23. Indicate the range of each: Units

Cyanides: ≤ 5 to PPM Type (free, total, amenable, etc.) TOTAL

Cyanides: Not Applicable to PPM Type (free, total, amenable, etc.)

Sulfides: ≤ 3 to PPM Type TOTAL

Optional Phenolics: ≤ 10 to PPM

24. Identify the waste color BLACK and physical state Solid
 and physical appearance CARBON-LIKE GRANULAR CHUNKS

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION	26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
<p style="text-align: center;">TOTAL</p> <p>Beryllium as Be < 5000 ppm</p> <p>Potassium as K < 5000 ppm</p> <p>Sodium as Na < 5000 ppm</p> <p>Bromine as Br < 1 %</p> <p>Chlorine as Cl < 1 to 5 %</p> <p>Fluorine as F < 1 %</p> <p>Sulfur as S < 1 to 5 %</p>	<p style="text-align: center;">RANGE</p> <p>A. Heat Value (Btu/lb): 10000-14000</p> <p>B. Water: _____</p> <p>C. Viscosity (cps): _____ @ _____ F _ 100 F _ 150 F</p> <p>D. Ash: _____ %</p> <p>E. Settleable solids: 100.00 %</p> <p>F. Vapor Pressure @ STP (mm/Hg): _____</p> <p>G. Is this waste a pumpable liquid? Yes _ No <u>X</u></p> <p>H. Can this waste be heated to improve flow? Yes _ No <u>X</u></p> <p>I. Is this waste soluble in water? Yes _ No <u>X</u></p> <p>J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No <u>X</u></p>

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _B. Proper Shipping Name. : HAZARDOUS WASTE, SOLID, N.O.Sand Additional Description if required: (CHROMIUM)C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mat'l I.D. NA3077 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): _____

E. Non-Bulk code 213 Bulk code 240F. Special Provisions B54 _____G. Labels Required CLASS 9 _____

28. SPECIAL HANDLING INFORMATION

INDEX/BLUE NITRILE (INNER GLOVE)CANCER SUSPECT AGENT: CADMIUMMaterial Safety Data Sheets Attached

29. OTHER INFORMATION

30. ONYX ENVIRONMENTAL SERVICES CERTIFICATION

Onyx Environmental Services, LLC has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

31. OTHER HAZARDOUS CONSTITUENTS Indicate "X" the mass of each constituent in the waste.									
METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data TCLP Actual	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
	Less Than	TC Regulated Level	Equal or More	Waste No.		California List			Actual
						Less Than	Regulated Level	Equal or More	
Arsenic as As	X	5.0 mg/l		D004		X	500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006		X	100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008		X	500 mg/l		
Mercury as Hg	X	.2 mg/l		D009		X	20 mg/l		
Selenium as Se	X	1.0 mg/l		D010		X	100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex						X	500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor. & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Date Printed 04/18/06

Appendix I

Profile #
TWI 236152

ATTACHMENT 2

CHEMICAL COMPOSITION: Additional constituents NOT included on page 1 of the Waste Profile
Constituents Range Unit Description

Date Printed 04/18/06

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: MRL
Master Profile No.: TWIS
Sales Office: NJO
Location Orig: MRL
Profile Expires: 4/18/08
Approved: 4/18/06
Signed Profile Present: Y Change Pending: N Waste Status: A
Site (DCS) Status: Z REQ FOR DCS DOWNLOAD
Prof. Tracking No: 5622406

Fuels Approval: _____
Pumpable Liquid Exact: _____ % OR Range: _____ - _____ %
Type of Pump: _____
Additional Anticipated Vol: _____ Per: _____ Unit Code/Des: _____

Handling Codes: _____ 36 Contains Cadmium

EPA Data: Status Code: C Tax Code: _____
Permit No: _____ Expr. Date: _____ Volume: _____
Certificate of Destruction or Disposal Required? Project #: _____
DOT Properties: Inhalation: _____ Dermal: _____ Oral: _____ Flammable: _____ Health: _____

Percent Taxable: _____ No. of Labels: _____
Tranship Dest: _____ Download Generator: 1435934
Material Class: _____ DCS Generator #: 999999999
Treatment Codes: T07
Process Codes: BSH
Schedule Category: BSOL
Schedule Interval: _____
Listed Solvent Waste: _____ Hal. Org. Compounds: _____ RCRA Reactive: _____
Etiologic: _____ Water Reactive: _____ Pesticide Mfg. Waste: _____
Ignition Screen: _____ Gas Evolution: _____ Wet Zone: _____
Self-heating cube sz: _____ Vapor Concentration: _____ Boiling Point F: _____
Is Gas Ignitable? _____ Corrosive to Steel or Aluminum: _____ Organic Peroxide: _____
Chemical Family Name: _____

GENERATOR FROM PAGE 1	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
Business Name PRAXAIR INC	EXEMPT	G	-	-	-	-

ADDITIONAL BUSINESSES	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
Business Name ONYX ENVIRONMENTAL SVCS LLC	OHR000002444	I	-	-	-	-

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
CSR	REVIEWED FOR PHASE IV LDR	PSC	CHARGE CODE: PSCO
PSC	REVIEWED FOR MACT METALS		

SUPPLEMENTAL FIELDS

Field	Value
WSTTP	B310
FRMCD	1
TPCDI	M043
TWIAD	Y

Appendix I

Date Printed 4/18/06

Profile Change History

Profile #
TWI 236152

This section lists comments describing changes made to the profile.

<u>Profile Change Comments</u>	<u>Date</u>	<u>User</u>
MST/TWIS Entire profile copied to MRL/236152	4/18/06	WM0911KEM
MRL/236152 Entire profile copied to TWI/236152	4/18/06	WM0911KEM

Appendix I

Date Printed 4/18/06

Schedule Categories

Profile #
TWI 236152

<u>Category</u>	<u>Description</u>	<u>Container</u>
BSOL	Bulk Solids	Mtl Cntrs, Rloffs, Cap Dump Trucks or Trailers Lugger Box Rolloff Tote Bin

Pricing Comments

Disposal Price

- Need PE if off-gate, no min, or no approval fee.
- \$4,000 minimum per shipment.
- If T & D bundled, 34,000 pound min for rolloffs and 24 ton min for end dumps.
- Illinois Hazardous Fees: \$.03 per gallon or \$6.06 per cubic yard.

Transportation Price

- Load/Trip/Mile
- \$425 per delivery if less than 100 miles.
- End dump \$3.25 per loaded mile (inner included).
- \$400/mo. or \$150/wk. minimum container rental.
- \$50 each for liners.
- Fuel surcharge will apply based on the U.S. Average Retail On-Highway Diesel Prices.
- Cancelled loads require 48-hour notice or they will be billed at the regular trip rate.
- Container deliveries, trailer drop-offs, trailer pick-ups, and rejected loads to be billed at normal trip rate based on loaded mile from customer to disposal facility.

Demurrage

- \$85.00 an hour after 1 1/2 hour loading time.

Waste Approval Fees

- \$150 paperwork approval (no analytical).
- \$500 analytical approval.
- Characterization & unknowns are priced upon request.

Pricing Conditions

- Energy & Security surcharge will apply.
- Bulk Container Rinseout or Heel Removal Fees:
 - \$400 fee for rinseout to exceed RCRA empty with no visible waste or foam.
 - \$1,000 minimum container entry fee plus \$1.45 per pound disposal fee for manual removal and repackaging of solids.
- Fees for odiferous, reactive, or very difficult to remove materials will be evaluated on a case-by-case basis.
- A \$300.00 minimum disposal fee for drums per profile number, per delivery applies.
- Containers <55 gallons for solids/sludges will be prorated per gallon with a \$XX.XX minimum.
- Containers <15-55 gallons for liquids will be prorated per gallon with a \$XX.XX minimum.
- \$75.00 per drum for any overpacked material.
- Discrepant material will be surcharged on a case-by-case basis.



Ms. Jeannie Milholland
SGS Environmental
1258 Greenbrier St.
Charlotte WV 25311

Report Number: G686-2

Client Project: Praxair (TAD)

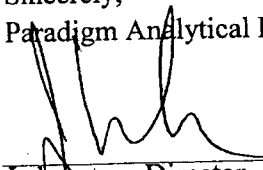
Dear Ms. Milholland:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.



Laboratory Director
J. Patrick Weaver

3/30/06

Date



Results for Metals

Client Sample ID: Carbon
Client Project ID: Praxair (TAD)
Lab Sample ID: G686-2-2
Lab Project ID: G686-2
Batch ID: 4796 4797

Analyzed By: PSW
Date Collected: 3/22/2006 15:00
Date Received: 3/24/2006
Matrix: Leachate

Metals TCLP	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.200	1	MG/L	6010B	3/29/2006
Barium	BQL	5.00	1	MG/L	6010B	3/29/2006
Cadmium	0.876	0.100	1	MG/L	6010B	3/29/2006
Chromium	11.4	0.100	1	MG/L	6010B	3/29/2006
Lead	BQL	0.100	1	MG/L	6010B	3/29/2006
Mercury	BQL	0.000570	1	MG/L	7470	3/29/2006
Selenium	BQL	0.200	1	MG/L	6010B	3/29/2006
Silver	BQL	0.100	1	MG/L	6010B	3/29/2006

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: 
MET_LIMS_4.0



List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

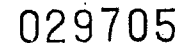
% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.030606.3



N.C. CERTIFICATION #481

MESSAGE CONFIRMATION

03/30/2006 12:25
ID=ONYX ENVIRONMENTAL

DATE	S.R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
03/30	01'12"	17403749788	CALLING	02	OK 0000

03/30/2006 12:24 ONYX ENVIRONMENTAL → 17403749788

NO.319 001



ENVIRONMENTAL SERVICES

Fax Coversheet

TO: Kean Weaver
COMPANY: Weaver Investments
FAX NUMBER: 740-374-9788
FROM: Jerry Dillman
304-759-1055 phone
304-759-1057
DATE: 3/30/06

**THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED, AND
MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL.**

If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are notified that any dissemination or distribution of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us by 03/30/06. Thank You.

Veolia ES Technical Services
Sauget, Illinois

Number of Total Pages Including Cover: 2

TWI LABORATORY ANALYSIS REPORT

This report has been prepared for the exclusive use and benefit of Onyx Environmental Services. No representation concerning sample validity or analytical accuracy or completeness is hereby made to any other person receiving this report. This sample was collected according to applicable SW-846 procedures.

Liquids (>5% Free Liquid) Solids (<5% Free Liquid)

Generator:		Praxair		Sample#	044306-F
Description:		Carbon w/ Chrome		Date Sampled:	
Profile		236152		Date Received:	
Sampled By:					

		Date	Analyst
Number of Layers		4-18-06	JS
Free Liquid (%)			
Pumpable			
* Color	Black		
Turbidity			
L * Viscosity	NA		
* Physical State	Carbon-like granular chunks		
Water Reactivity			
Water Miscibility			
L/S * Radiation Screen	None		
Oxidizer Screen			
Cyanide Screen			
Sulfide Screen			
Flam. Pot. Screen			
L/S * pH Screen	6-10/1		
Specific Gravity			
Incidental odor			
Paint Filter Test			
* BTU/LB	12050	4-18-06	MD
* % Chloride	20.50		JS
L/S * PCBs By GC mg/kg	25.0	4-18-06	BY
L * Flash Point deg. F			
pH by Meter			
Metals:	As: _____ Be: _____ Cd: _____ Cr: _____ Pb: _____ Hg: _____		
Precursors	Silvex: _____ 2,4,5-T: _____ PCP: _____		
Other:			
Compat:	H2O _____ Diesel _____ Toluene _____ BlendTank _____		
Comments:			

Analysis Approved By: 

F. H. Formby, Lab Manager

Date: 4/18/06

SALES SAMPLES RECEIVED BY LAB

Instructions: Open sample and check for minimum amount and sample integrity. Fill out this form and submit to Approvals Chemist with any paperwork from sample box.

From Lab Analyst to Approvals Chemist

A sales sample was received (date) 4-11-06 by M. U. A.

Sample is now located in Back hood

The generator is Papay and the profile or WIP # is 236152

If paperwork was received with the sample, it is attached.

Check all that apply :

- ☐ No paperwork was received.
- ☐ Not enough sample (minimum=150 mL of liquid or 100 gm of solid) was received to perform analytical tests
- ☐ Specify other comments: _____

From Approvals Chemist to Lab:

- ☐ Log-in and perform indicated analytical
- ☐ No analytical is required, sample may be incinerated
- ☐ Have _____ look at the sample, then give it a 1-month pitch date
- ☐ Specify other comments: _____
- ☐ Ship sample to : _____
Give details of requested analytical below:

C:\lab\memo\sales.doc

WASTESTREAM INFORMATION PROFILE

Disposal Code

Recertification

ONYX Location

NORTH JACKSON OFFICE

NORTH JACKSON

OH

001 010

OFFICE

CITY

ST

Invoice Address

ONYX TSDF requested Technology requested Generator No. 532911 Generator EPA ID No. NONEREQUIRED

1. Generator Name PRAXAIR, INC. Generator State No.

Address POINT LICK DRIVE OFF CAMBELLS CREEK ROAD State Wastestream No.

City TAD State WV Country US ZIP 25201

NAICS(SIC) Code 2813 Source G19 Origin 1 Form W409 System Type

2. Waste Name CARBON WITH CHROME Lab or Waste Area

3. Process Generating Waste
discard of used carbon filter media

4. Shipping Name HAZARDOUS WASTE, SOLID, n.o.s.

Hazard Class 9 UN/NA No. NA3077 PG III RQ amt 0 lb Waste: N PIH: N IH: N DWW: N P: N

RQ Des: 1. 2.

DOT Des: 1. 2.

5. Waste Codes D007

Wastewater Non Wastewater X Sub Category Mix: N Sol: N

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a < 2	a < .8	a < 80	0 - 0% suspended 0 - 0% ash
b 2 - 5	b .8 - 1.0	b 80 - 100	0 - 0% settleable 0 - 0% water solubili
c X 5 - 9	c 1.0	c 100 - 140	0 - 0% dissolved 0 - 0 BTU/lb
d 9 - 12.5	d 1.0 - 1.2	d 140 - 200	
e > 12.5	e X > 1.2	e > 200	Free Liquid Range 0 to 0 %
- exact	- exact	f X no flash - exact	

Physical State

Hazardous Characteristics

Odor

s X solid	a air reactive	r radioactive or NRC regulated	a none X
m semi-solid	w water reactive	s shock sensitive	b mild
l liquid	c cyanide reactive	t temp sensitive	c strong
p pumpable semi-solid	f sulfide reactive	m polymerization/monomer	describe
f flowable powder	e explosive	n OSHA carcinogen	
g gas	o oxidizing acid	i infectious	
a aerosol	p peroxide former	h inhalation hazard	
r pressurized liquid		Zone:	
d debris per 40 CFR 268.45			
h sharps			

Halogens

Br 0 - 0 % Bromine
Cl 0 - 0 % Chlorine
F 0 - 0 % Fluorine
I 0 - 0 % Iodine

Layers: a multilayered: b bi-layered: c X single phase

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	high(syrup)	high(syrup)	high(syrup)	BLK
by	medium(oil)	medium(oil)	medium(oil)	
Layer:	low(water)	low(water)	low(water)	
	X solid	solid	solid	

Used oil y/n N HOC < 1000 ppm HOC > 1000 ppm

page 1

WIP NO. 236152

Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, Appendix I=Ozone Depleting Substance, U=Underlying Hazardous Constituent, B=Benzene NESHA, T=TRI Chemical, C=OSHA Carcinogen]

Constituents

Ranges

Units

CARBON W/CHROME	100.00	100.00	%
-----------------	--------	--------	---

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒
PCB Concentration .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream subject to Benzene NESHA? Yes ☐ No ☒
If yes, is the wastestream subject to Notification/Control Requirements? Yes ☐ No ☒
Benzene Concentration .00 ppm
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒
Volatile Organic Concentration .00 ppmw
CC Approved Analytical Method? Yes ☐ No ☒
Generator Knowledge? Yes ☐ No ☒
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☐ No ☒

14. Container Information :

Packaging: Type/Size: _____
Type/Size: _____

Shipping Frequency: Units .00 Per Day _ Per Week _ Per Month _ Per Qtr _ Per Year _ One Time _
UOM DESCRIPTION: _____

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Per John Estep Phone _____ Date 4/10/04
Name(Print or Type)

Signature on File _____ Title _____
Signature

FACILITY NOTIFICATION

If approved for management, ONYX has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

Material Safety Data Sheet**Date:** 03/21/2006**Product:** 19252340 - FCA 4X10*Attn: John Cate***SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Manufacturer:** Calgon Carbon Corporation

P.O. Box 717

Pittsburgh, PA 15230-0717

Emergency Phone Number: (412) 787-8700**Date Prepared:** 8/24/2002**Prepared By:** S. Liller**Chemical Name and Synonyms:** Carbon impregnated with copper and chromium**Formula:** C, Cu, CrO₃**SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS**

Nonhazardous components are listed at 3% or greater; acute hazards are listed when present at 1% or greater and chronic hazards are listed when present at 0.01% or greater. This is not intended to be a complete compositional disclosure.

<u>INGREDIENT</u>	<u>% (BY WEIGHT)</u>	<u>CAS#</u>
Carbon	85 - 93	7440-44-0
Copper	4 - 9	7440-50-8
Chromium trioxide	3 - 6	1333-82-0

SECTION III - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Black particulate solid, pellet or powder. Contact may cause eye irritation. Dust may be slightly irritating to eyes and respiratory tract.

CAUTION!! Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and federal regulations.

POTENTIAL HEALTH EFFECTS:

Effects and Hazards of Eye Contact: The physical nature of the product may produce eye irritation.

Effects and Hazards of Skin Contact: The product is not a primary skin irritant. The primary skin irritant index (Rebbt) is 0.

Effects and Hazards of Inhalation (Breathing): The FCA product is practically non-toxic through inhalation. The acute inhalation LC₅₀ (Rat) is >50 mg/l (nominal concentration) or >9.4 mg/l mean airborne dust concentration.

Effects and Hazards of Ingestion (Swallowing): The FCA product is practically non-toxic through ingestion. The acute oral LD₅₀ (Rat) is >10 g/kg. No animal mortalities occurred during the course of a 14 day study with FCA activated carbon.

Primary Routes of Entry: Inhalation, ingestion, skin contact, eye contact

Chronic Effects: The effects of long-term, low-level exposures to this product have not been determined. For chromium, chromium trioxide and certain chromium compounds, NTP, IARC and independent researchers have determined that there is sufficient evidence for carcinogenicity in both humans and experimental animals. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

CARCINOGENICITY: NTP: YES IARC: YES OSHA REGULATED: YES

Material Safety Data Sheet**SECTION IV - FIRST AID MEASURES**

Treatment for Eye Contact: Flush with plenty of water for at least 15 minutes.
 Treatment for Skin Contact: Wash with soap and water.
 Treatment for Inhalation (Breathing): N/A
 Treatment for Ingestion (Swallowing): N/A

SECTION V - FIRE FIGHTING MEASURES

Flash Point: N/A
 Limits Lel: N/A
 Uel: N/A
 Extinguishing Media: FLOOD WITH PLENTY OF WATER.
 Special Firefighting Procedures: None
 Unusual Fire and Explosion Hazards: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc., may result in fire. Due to metals on the carbon, this catalytic reaction is accelerated for this product's dust or fines.
 NFPA RATING: HEALTH = 0 REACTIVITY = 0 FLAMMABILITY = 1

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled: Sweep up unused product and discard in refuse container or repackage. Consult local, state or federal regulations for proper disposal. If released, report in accordance with local, state and federal regulations.
 Waste Disposal Method: Dispose of unused carbon in refuse container. Dispose of in accordance with local, state, and federal regulations. Waste material should be manifested as D007 for extractable chromium and may be subject to reportable quantity rules if waste is spilled.

SECTION VII - HANDLING AND STORAGE

Precautions for Handling and Storage: CAUTION!! Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state, and federal or national regulations.
 The FCA product dust or fines is more susceptible to catalytic reaction than the large mesh product. Avoid generation of dust and fines during handling.
 Other Precautions: Wash thoroughly after handling. Exercise caution in the storage and handling of all chemical substances.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION**Exposure Guidelines:**

	OSHA PEL*	ACGIH TLV*
Carbon	5 mg/M ³ (Resp)	10 mg/M ³ (Total)
Copper	1 mg/M ³ as Cu	1 mg/M ³ as Cu
Chromium Trioxide	0.1 mg/M ³ (Ceil)	0.05 mg/M ³

*PELs and TLVs are 8-hour TWAs unless otherwise noted.

Respiratory Protection: A NIOSH approved particulate filter respirator is recommended if excessive dust is generated.

Ventilation: Local Exhaust Ventilation: Recommended

Mechanical Ventilation: Recommended

Protective Gloves: Recommended

Eye Protection: Safety Glasses or Goggles Recommended

Other Protective Equipment: Not Required

Material Safety Data Sheet**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: N/A
Specific Gravity: N/A
Vapor Pressure: N/A
Melting Point: N/A
Vapor Density: N/A
Evaporation Rate: N/A
Solubility in Water: NEGLIGIBLE
Packing Density: 0.4 to 0.7 g/cc
Appearance and Odor: Black particulate solid, pellet or powder

SECTION X - STABILITY AND REACTIVITY

Stability: STABLE
Conditions to avoid: NONE
Incompatibility (Materials to avoid): Strong oxidizers such as ozone, liquid oxygen, permanganate, etc.
Hazardous Decomposition Products: Carbon monoxide may be generated in the event of fire.
Polymerizing Conditions to Avoid: NONE

SECTION XI - TOXICOLOGICAL INFORMATION

See HEALTH EFFECTS SECTION III

SECTION XII - ECOLOGICAL INFORMATION

Not Determined

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of unused carbon in refuse container. Dispose of in accordance with local, state, and federal or national regulations.

SECTION XIV - TRANSPORT INFORMATION

Proper Shipping Name: NOT REGULATED

Hazard Class: N/A

Identification Number: N/A

Packing Group: N/A

This product has been tested according to the United Nations *Transport of Dangerous Goods* test protocol for spontaneously combustible materials. It has been specifically determined that this product does not meet the definition of a self heating substance or any hazard class, and therefore is not a hazardous material and not regulated.

Material Safety Data Sheet**SECTION XV - REGULATORY INFORMATION**

SARA TITLE III: The presence of copper, chromium trioxide, chromium compounds are subject to reporting requirements.

TSCA: The ingredients of this product are on the TSCA Inventory List.

OSHA: This product is considered an air contaminant due to the presence of copper and chromium trioxide.

California proposition 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains a chemical (chromium trioxide) known to the state of California to cause cancer.

CANADA

WHMIS CLASSIFICATION: D2A (carcinogen), D2B (skin, eye irritant)

DSL: The ingredients of this product are on the domestic substances list.

EEC Council Directives relating to the classification, packaging and labeling of dangerous substances and preparations.

Risk (R) and Safety (S) phrases: May be irritating to eyes (R36).

SECTION XVI - OTHER INFORMATION

Intended Use: Generally used for treatment of liquids and gases.

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, CALGON CARBON CORPORATION MAKES NO WARRANTY WITH RESPECT AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

*** END OF MATERIAL SAFETY DATA SHEET ***

